



BASS MICRO SYNTH

Analog Bass Synthesizer

Congratulations on your purchase of the Electro-Harmonix XO Bass Micro Synth! You have purchased a very powerful tool for musical expression. Please take a few minutes to familiarize yourself with the Bass Micro Synth's controls and how they work

The XO **BASS MICRO SYNTH** can create many of the most popular analog lead synthesizer textures at a fraction of the normal cost for such capabilities. Its four voices: **GUITAR**, **OCTAVE**, **SUB-OCTAVE**, and **SQUARE WAVE** are completely independent and fully mixable. The BASS MICRO SYNTH can modify these signals with envelope control for a variety of "bowed" and "blown" sounds. In addition, a sophisticated swept filter control allows highly variable frequency adjustments to be made to the signal. When combined, these controls offer the user a creative capability that is virtually limitless.

WARNING: Your Bass Micro Synth comes equipped with an Electro-Harmonix **9.6DC-200BI power supply** (same as used by Boss™ & Ibanez™ 9.6 Volts DC 200mA). The Bass Micro Synth requires 55mA at 9VDC with a center negative plug. The Bass Micro Synth does not take batteries. Using the wrong adapter may damage your unit and void the warranty.

PREAMP GAIN ADJUSTMENT The preamp gain in the Bass Micro Synth has been set at the factory for use with a bass equipped with single-coil passive pickups. If you will be using another instrument with higher or lower output, it may be necessary to readjust this setting. A screwdriver or alignment tool with a tip width of no more than 1/16" is required. To access the preamp gain adjustment, remove the bottom plate from the Bass Micro Synth. Look for the small trim pot in the lower left corner of the circuit board, it is labeled TRIM1 GAIN TRIM. Turning the trim pot clockwise will increase the preamp gain. Turning it counter-clockwise will decrease preamp gain. Please do not touch any other components when the bottom plate is removed or you risk damaging the circuit board or the components.

OPERATION The Bass Micro Synth's controls operate as described below. In all cases, high-numbered control settings increase the level of the given effect.

FOOTSWITCH and Status LED – The Footswitch selects either effect mode or True Bypass. When the Status LED is lit, the Bass Micro Synthesizer is in effect mode. When the Status LED is off, the Bass Micro Synth is in True Bypass mode.

TRIGGER – Determines the input volume at which the filter circuits will "turn on." It does not affect any other circuitry. If the **TRIGGER** is set too high, the filter may "stutter" due to multiple triggering. This is especially true if chords are played. It is best to set the **TRIGGER** at exactly the sensitivity needed for your playing.

The next four controls of the BASS MICRO SYNTH comprise the **VOICE MIXING** section: **GUITAR**, **SUB-OCTAVE (one octave below)**, **OCTAVE** (one octave above), and **SQUARE WAVE**. Each voice is completely independent and can be mixed with the others in any degree. Please note the following voice characteristics:

GUITAR- Controls the output volume of the input signal through the filter.

SUB OCTAVE – Controls the output volume of the Sub-Octave. The Sub-Octave effect only tracks single notes.

OCTAVE – Controls the output volume of the Octave. The Octave only tracks single notes. This voice contains a small amount of harmonic distortion for added richness of tone.

SQUARE WAVE – Controls the output volume of the Square wave. Intensity of this voice is also determined by instrument attack or volume. In all other respects it operates in a similar fashion to a standard distortion device.

ATTACK DELAY – Determines the time required for the voice signals to reach full volume. Higher-numbered settings can completely remove the initial attack of the instrument. Different delay times contribute greatly to the characteristic sounds of various instruments. It is recommended that you synchronize your playing to the speed setting of the **ATTACK DELAY**.

The final four controls comprise the FILTER SWEEP section.

RESONANCE – Affects the degree of sharpness, or "Q" of the filter. Higher settings will produce a more emphasized filter sound and also add a slight boost to the signal.

START FREQUENCY - Determines the frequency at which the filter sweep begins.

STOP FREQUENCY – Determines the frequency at which the filter sweep ends. This is also the "resting frequency" of the filter, and if the **START** and **STOP** controls are set at the same level no sweep will occur, though the filter will provide emphasis of that particular frequency band. In addition to lead synthesizer sounds, **START** and **STOP** controls can be used to simulate attack, decay, and harmonic content of acoustic instruments.

RATE- Determines the speed at which the filter sweeps from **START FREQUENCY** to **STOP FREQUENCY**. It is recommended that RATE be synchronized with your playing speed.

SOUND TEMPLATES- The sample settings include with these instructions will help you get familiar with your **BASS MICRO SYNTH** and its controls. Once you've tried all the sample settings, feel free to experiment to develop your own unique palette of sounds. You can record your new settings in the blank templates provided.

-Power-

9V Power Jack – Connect the output plug of the supplied AC Adaptor into the 9V power jack at the top of the Bass Micro Synth. The Bass Micro Synth's maximum current requirement is 55mA at 9VDC. The polarity of the power jack is center negative. The maximum allowable power supply voltage is 12VDC.

- WARRANTY INFORMATION -

Please register online at <http://www.ehx.com/product-registration> or complete and return the enclosed warranty card within 10 days of purchase. Electro-Harmonix will repair or replace, at its discretion, a product that fails to operate due to defects in materials or workmanship for a period of one year from date of purchase. This applies only to original purchasers who have bought their product from an authorized Electro-Harmonix retailer. Repaired or replaced units will then be warranted for the unexpired portion of the original warranty term. If you should need to return your unit for service within the warranty period, please include a brief description of the problem as well as you name, address, telephone number, copy of your receipt, and a check or money order.

United States - \$12

Canada - \$15

Europe and outside countries - \$25

Ship to:

Electro-Harmonix
C/O New Sensor Corporation
55-01 2nd Street
Long Island City, NY, 11101
Attn: Service Department

Please make checks/money orders **payable to New Sensor Corporation.**

To hear demos on all EHX pedals visit us on the web at www.ehx.com.

Email us at info@ehx.com

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BASS MICRO SYNTHESIZER INSTRUCTIONS